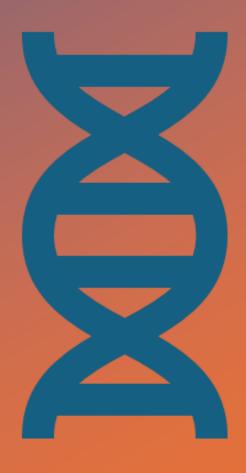
# DEPARTMENT OF BIOTECHNOLOG Y



### Year of Establishment - 2005 Courses Offered – B.Sc Biotechnology

### **Staff Details**

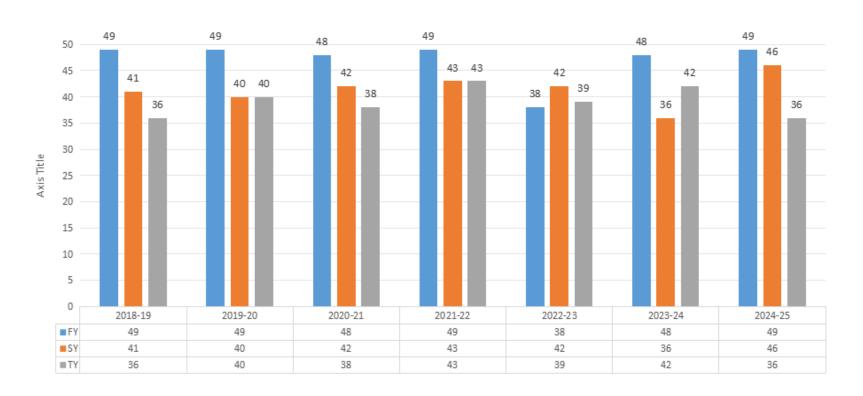
Sr. No.	Name Of The Staff	Designation	Qualification	Experience (Years)
01	Mrs. Priya R. Sonawani	H.O.D	M. Sc., M. Phil, SET	15 Years
02	Ms. Vishakha A. Mahajan	Assistant Professor	M. Sc., NET, GATE	12 Years
04	Ms. Sumaiya Y. Janorkar	<b>Assistant Professor</b>	M. Sc. SET	5 Years
05	Ms. Tanvi M. Dhatrak	<b>Assistant Professor</b>	M. Sc. B. Ed	5 Years
06	Ms. Meghna R. Chaudhari	<b>Assistant Professor</b>	M. Sc.	4 Years
07	Ms. Neha S.Bele	<b>Assistant Professor</b>	M. Sc.	5 Years
07	Ms. Sujata R. Mhaske	<b>Assistant Professor</b>	M. Sc.	4 Years

# Special Achievements - Staff

SR. NO	NAME OF THE STAFF	ACHIEVEMENT	ACADEMIC YEAR
1.	P. R. Sonawani	Best Teacher Award	2021-22
		Teacher Entrepreneur Award	2021-22
		03 Indian Patents	2022-24
2.	S. Y. Janorkar	SET	2022-23
3.	T. M. Dhatrak	B. Ed	2021-22
4.	M. R. Chaudhari	First Prize in Poster competition	2020-21
5.	N. S. Bele	Best student award ( Classical Singing)	2023-24
		Classical Singing (5th Level)	2024-25

## Student Enrollment 2018-25

### **Student Enrollment 2018-25**



### **Departmental Activities Academic Year 2019-2024**

Month	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
January	-	Soft skill development by Ashok Deshpande	-	-	-
February	-	Educational Visit to Sahyadri Farms & Nandur Madhyameshwar	-	-	Handwriting Competition
March	-	-	<ol> <li>Career opportunity in</li> <li>Biotechnology by Ankit rathi</li> <li>Quiz Report</li> </ol>	Indutrial Study Sahyandri Farms & Reanninace Winery	Guest lecture on Future Career by Sakshi Ghumare & kashmita Dhiwar
April	-	-	1.Career guidance in biotechnology by Nikita Gaikwad 2.Poster presentation & Treasure Hunt	Handwriting Competition	
June	-	•	Need to change Economy of village by Anna Hazare	-	•
July	-	-	-	-	1.Induction program (FY Bsc 2. Guest lecture by Pratik paranjpe on scope of Biotechnoogy
August	-	-	-	-	Induction program (SY, TY BSc)
September	1.Remote sensing and GIS by Dr D. Harpale Choice based credit system by Ms Ashwini jadhav	-	-	-	Rathi Scholarship distribution programme – Ankit Rathi
October	Scholarship distribution programme – Lakshminarayan Rathi	-	-		-
November	-	-	-	1.Career guidance in biotechnology by Nikita Gaikwad 2.Presentation on Ashwamedh visit	-
December	-	-	Seminar By Dr. Pramod Hire on mega play Janata Raj ( Chhatrapti Shivaji maharaj)	-	-

# Modes of Continuous Internal Evaluation

- 1 Internal Exams
- 2 Class Tests
- 3 Open book assignments
- 4 Field visit report making and assessment
- 5 Personality Development and Analysis
- **6** Exhibitions and Contests
- 7 Co-Curricular and Competitions
- **8** Project presentation Viva-Voce
- 9 Scientific Brain Teasers(Quiz)
- 10 Home Assignment Assessment
- 11 Groups Discussions
- 12 Practical Performance Evaluation
- 13 Regular Mentee Evaluation
- 14 On-Job-Training Evaluation (Internship)



#### **OVERVIEW**

The demand for herbal products has surged in recent years due to increasing awareness of the potential adverse effects of synthetic chemicals on human health and the environment. The findings of this study will contribute to the growing body of evidence supporting the use of Bael in skincare products, providing a natural and sustainable alternative to synthetic ingredients. Moreover, the development of Bael-based skincare formulations has the potential to promote the conservation and cultivation of Bael trees, thereby contributing to the preservation of biodiversity and traditional knowledge.

#### **OBJECTIVES**

- To obtain extract from bael fruit & leaves
- Use of the extract for preparation of various skin care products
- Preservation of herbal skin care products

#### CHALLENGES

- · Poor market access for farmers
- Lack of quality control in processing

#### **OPPORTUNITIES**

- Growing global market for herbal & organic products
- Scope for export & foreign investment under schemes like make in India
- Development of eco-tourism & herbal gardens

#### CONCLUSION

The integration of bael into herbal skincare products presents a compelling opportunity to marry traditional wisdom with modern science, offering consumers effective,

natural, and sustainable solutions for nurturing their skin.

# CONTINUOUS INTERNAL EVALUATION THROUGH PROJECT PRESENTATION VIVA VOCE.

Miss Shreeja Kulkarni and Sanskruti Ekhande (2023-24) due to their Project Work and Presentation could effectively established their own START UP of HERBAL SKIN CARE PRODUCTS.

# CONTINUOUS INTERNAL EVALUATION THROUGH MENTEE INTERACTION

Name of the student: Yash Patil (2020-2023)

**IDENTIFICATION** (slow learner)

REASON (Slow understanding)

SOLUTION (Mentee Interaction

OUTCOME (Secured Scholarship and Published a research paper)

### CONTINUOUS INTERNAL EVALUATION THROUGH On-Job-Training Evaluation (INTERNSHIP)

- Ms. Sanjana
   Valecha received training and
   Job opportunity at HCG Manavta,
   Cancer Centre, Nashik
- She is working in clinical trails for cancer of cervix, Lungs cancer, hodgins lymphoma, metastatic colorectal cancer



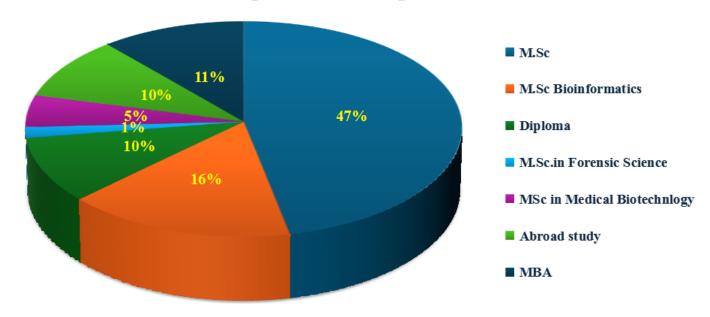


HCG Manavata Oncology LLP. NOT FOR HIS PURPOS!

Behind Shivang Auto, Mumbial Naka, Nashik - 422 002. Ph. 0253-666 11 11
unit26 manavataranceroseths.com | www.hcgmanavatarancero.org

# Cross cutting issues transacted in the syllabus 18-23

### **Students Progression to Higher Education**



Professional Ethics

# Cross cutting issues transacted in the syllabus 18-23

- Human Values-
- 2021-2022 Webinar By Respected Shri Anna Hazare on the topic of "Need to change Economy of villages"
- Environmental Sustainability-
- 2022-2023 Abhishek M., Sidharth K. & Yash P.
   Production of biofertilizer (Research Paper published)
- 2022 -2023- Abhidnya A. & Maithili W. -Screening of bio-emulsifier producing bacteria and yeast from petroleum contaminated soil (Research Paper published)
- 2022 -2023- Rasika R., Sayli D. & Sneha N. -Isolation of bacteria from agricultural soil and screening of its antimicrobial property (Research Paper published)

# Result Analysis of Last Five Academic years



# STUDENTS ACADEMIC ACHIEVEMENTS

### **UNIVERSITY RANK HOLDERS**

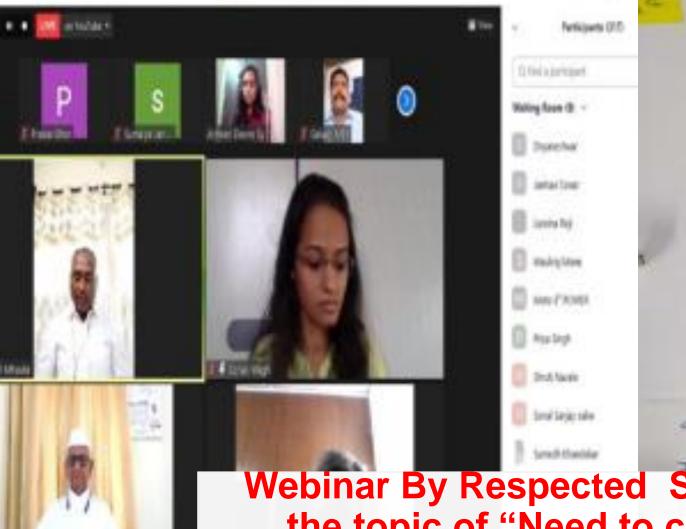
Sr. No	Name of the student	Academic year	University Rank
1.	PRAPHTHI SALIAN	2020-2021	3rd
2.	STEFFY NADAR	2020-2021	6th
3.	YASHVI DHIGNANI	2019-2020	6th
4.	POOJA GAIDHANI	2019-2020	7th

### STUDENTS CO-CURRICULAR ACHIVEMENTS

Sr. No	Name of the Student	Competition	Rank
1.	Ms. Shubhada Khare & Ms. Vinita Baviskar & Ms. Nupur Nisal	Poster Competiton at the Event Aarohan organised by DES college, Pune(2024-25)	First
2.	Ms.Shubhada Khare	Avishkar Research Project (2024 –25)	Zonal level
3.	Ms.Vaishnavi Shelke	Avishkar Research Project (2024 –25)	Zonal level
4.	Mr. Jayesh Pagar	Avishkar Research Project (2024 –25) Youth festival (2024-25)	University level Second
5.	Mr. Suyash Jadhav & Ms. Shruti Barde	Avishkar Research Project (2023-24)	University and State level
6.	Ms. Devangi Nakil & Ms. Shivangi Singh	Avishkar Research Project (2023-24)	Zonal level

# ICT Enable Methods

PLATFORM or TOOLS	PURPOSE SERVED
LCD projectors, and Sart boards	Department has been effectively using ICT methods in teaching-learning process
YouTube videos and Blogs	Educational content to supplement classroom teaching.
WhatsApp	To share resources, conduct discussions, and provide continuous academic support.
Google Classroom	Conduct discussions, and provide continuous academic support.
Blended mode	Online mode in association with offline teaching. Webinars, Seminars conducted
Qviple	Student's support system for all academic needs
Zoom, Google meet	Online platforms facilitated seamless delivery of lectures and academic interactions.

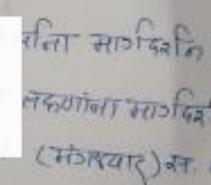




प्रिकार कर्म प्राचनका व्यवस्था वर्ग प्राचनका प्

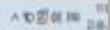
व्याधारेक विभाज अधिकील व्याख्यातात

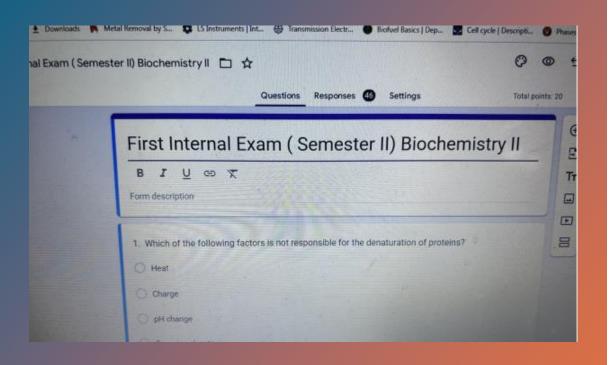
Webinar By Respected Shri Anna Hazare on the topic of "Need to change Economy of villages

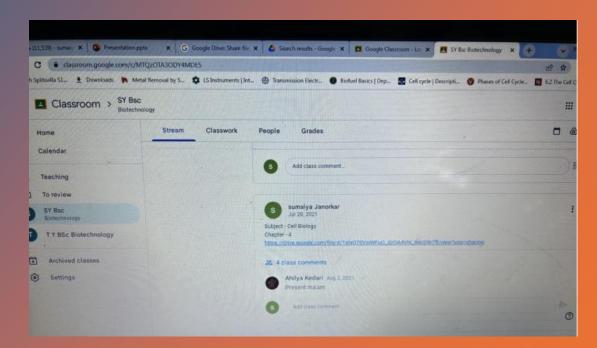




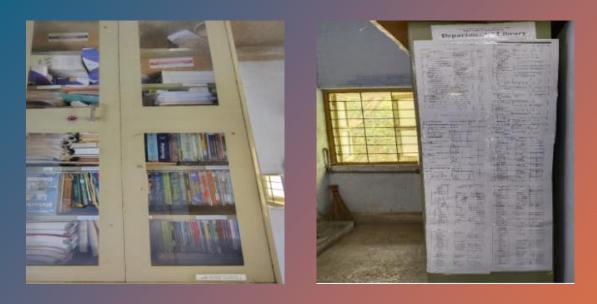








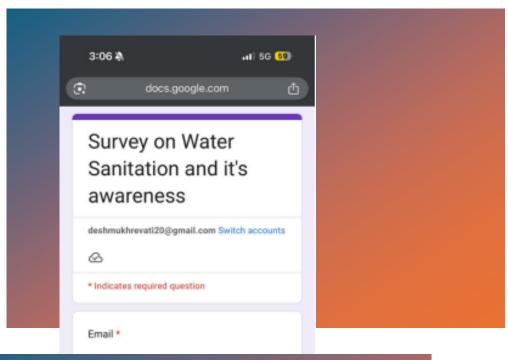
# **Teaching** Learning **Process** through ICT **Enabled** Methods





## DEPARTMENTA L LIBRARY

- Library Facility provided by the Department: Includes reference books, textbooks etc related to the subjects of Biotechnology
- No of Reference Books 104
- No of Textbooks 69
- Total no of books 173





## BEST PRACTICE S OF DEPARTMENT

#### **SCIENTIFIC SURVEYS**

It involves an approach that integrates social science methodologies with the specific ethical, cultural and Scientific considerations inherent to the Biotechnological Domain

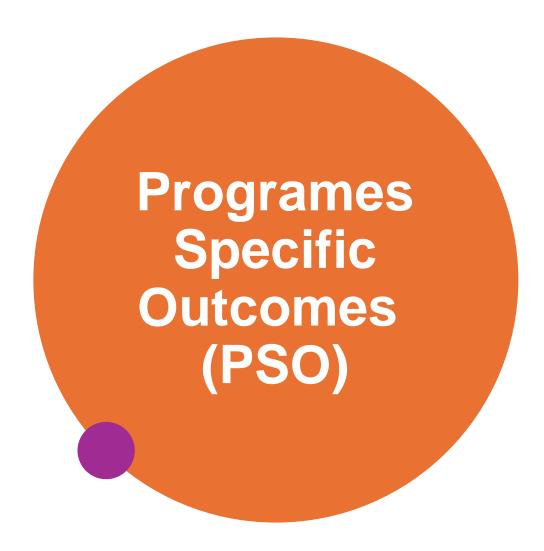
### **Objectives of the Practice**

- To Gauge the public awareness
- Identify attitudes and beliefs
- Measure behavioral intentions
- Evaluate program effectiveness

BEST **PRACTICES** DEPARTMEN SUPPORTED

# RATHI SCHOLARSHIP DISTRIBUTION

- Scholarship"
  distribution programme
  annually for the meritorious
  students and financially
  BACKWARDS students for
  Holistic development and
  boosting Confidence
- Scholarship awarded since 2008till date
- ➤ 36 students till date have been awarded with Rathi Scholarship



- **PSO1:** Understand the nature and basic concept Cell biology, Biochemistry, Genetics, Immunology, Microbiology and Ecology
- **PSO2**:Analyze the relationships among animals, plants and microbes
- **PSO3:** Perform procedures as per laboratory standards in the areas of biotechnology, Developmental biology, Biochemistry, Microbiology, Biochemical and Biophysical techniques and Environmental Biotechnology.
- **PSO4:** Understand the applications of biological sciences in Bioprocess technology ,Molecular biology, Recombinant DNA technology, Tissue culture techniques, Biodiversity conservation, Bioinformatics etc.
- **PSO5:** To encourage students to participate in cocurricular and extracurricular activities which will aid in their holistic personality development.

# Course Outcomes (COs)

- To introduce the concepts in various allied subjects
- To enrich student's knowledge in basic and applied aspects of life sciences
- To help the students to build interdisciplinary approach in teaching /learning and in research
- To inculcate the sense of scientific responsibilities and social awareness
- To help students build up a progressive and successful career in academia and industry
- CO Mapping The analysis shows that the syllabus, evaluation pattern & Result are Fully Aligned

### Attainment of POs and COs



Kajale Rutvik Godrej Cattle genetics Pvt. Ltd



Suyash Dinesh Jadhav M.Sc. in Bioinformatics SPPU, Pune



Aditya Wadekar, Trainee officer Serum Insitute of India PVT Ltd, Pune,



Abhidya Amrutkar M.S University of Potsdam, Institute of Biochemistry and Biology, Deutschland/Germa ny



Pranali Chaudhari M.S University of Potsdam, Institute of Biochemistry and Biology, Deutschland/Germany

6		Savetta Phus Pure Un Savetain Free Merito				Travel Mar 1	734 MM	
77			, ,					
		Billio State of Street Court Patrick		100.75	and the State	-		
4.7	1162239							
1000	EL STA	Antini toma (1015.44) h	A more	K 5000				
Prior Prio Prio	ar heri or notice or off to	or Combination  party with his advance squally be appropriate to should allow the same year of the late to should allow the same year of the late to should allow the same should be a  and a binding to should be the same should be  and a binding to should be the same should be	to come	e en Bill				
-	mad Da	and the property of the party of the state o		7.07				
	rtto-lay		SMORE	6 ARTHS	OTHER PARTY.			
		Marine Method	HARM					
		Marian Control	Ages wide their last drive wast to be presented					
-		material of an JUT 14 Express	Contract In	urber .		200004		
-	100	PARK	ment.			000		
		ing Photos Ho	Bulliot 0	-		77		
480		SAFERRATIO						
SAN No.	Marie Marie	Securitaria Securitaria	-	Same Track	-	Plantell Section	Property.	-
1	-	Service (SEL BOOK)		100	9.			-
31	100	Ref to Act to a series with			-			100
-	200	SMC Service Charles that	- 8	114	75	1.70	13	70
4	-811	man en de la Richard P					100	100
(41)	201	THE RESIDENCE OF STREET	100			11.5		10
900	84	ME 10-MARKSON			- 50		105	-
90	-89	THE RELATION OF THE PERSON	1			- 5		
	100	meanway was property	100		2	11020	-	10
4	-	gall and the regions desired in Wilcold I	11.0	100			-	16
	1	Single of the Assessment of the Scientific of th	10.00		-	110		
-	-	STATE OF THE PERSON NAMED IN COLUMN	-		-	12	-	8
	-	A DECEMBER OF THE PARTY OF THE PARTY.		110	-		-	
	-	NAME AND ADDRESS OF THE OWNER,		-				

1	
	To.
	the psinopal
	HPT Arto and EVE Scrouse settings
	secure send
	tratted - essent
	Section 1997 Annual Contraction of the Contraction
	19** Apart 2584
	Subject : Request for conscious so Hatt Transf
	Kesycoted Maro
	There has been somet crimes on the dual tooker -
	the incoming event for semester four of TV posterior of the matter of the months for a your according towards are excess from according to the months of the
	in the second that trial liber is a made and a second on the contrast of the second se
	please make necessary corrections
	sample of an incorrect that wicker out to find former
	our attached with the letter
	Thanking you .
	Ymusi salvuskaligi
- 4	as Addition Shouldhair white
	of Regal Enthantic
	On Visitali Mahati Silk
	CO POLICIA CONTRACTOR
	C SY RS: Expression States

· de ·		Saytribai Phule Pune Unh	remaits'				8101		
ER.						Print No.	1234		
pare.		Examination Form Manker 2	100						
in theme	0.26	- decision and decision from							
141403	80000	graphing the Tributal to			e to ten Fin		-		
CODE	(AAH)	Order Name Statement of the	5 300 W.Y	K, man	14 Catal				
TAKEN MINERS	Rocked (RIN	CONTRACTOR DESCRIPTION	g trout ste ha trotale	-1 (000) -1 (000) -1 (000)	-				
THE RESERVE AND ADDRESS OF THE PARTY NAMED IN COLUMN TWO IN COLUMN TO THE PARTY NAMED IN COLUMN TO THE		on & Science Control Prints Plant (State	rate For	41100					
1.Ferror									
Marin of S		and the same of th		116/75/7	31/12/11/1	15-			
11003-07	be Appe	Capital Review	OF REAL PROPERTY AND ADDRESS OF THE PERSON						
SARVING Y		ministra (	CHOCH	10120	MACHIA	MADER	2100		
2000			Contact 70	-			_		
		Contract Con	31						
Time	41.0	on the period of the	144	(April 19		page.			
Arter		prominered a							
0.000	-	and the Control of th			-	-	-		
/ Stant	See.	SURFACE AND STREET	1	There's	Codes	MANAGER .			
1997	-	CANCELL STREET, STREET		COMP.		100	-		
14	441	THE WALL DOWN BOOK STORY	-00			3.1	10		
100	-	SECRETARISM STATE OF PROPERTY STATE		4	-20	-	-		
5 A	-01	DEC-AND READOLOGY	-	1.5		1			
STA	-	THE RESERVE OF STREET			-	1020	-		
TA	400	THE WAY BY AND DESIGNATION .	100	100	- 20	41110	-		
4	Take .	the residence of the second			-	-	112		
100	941	\$2.01 Same	1117						
714	-	THE RESERVE AND PARTY AND PERSONS NAMED IN COLUMN 2 IN			14-	100	-115		
- 601	-	THE RESIDENCE PARTY COLUMN TWO IS NOT THE OWNER, THE PARTY COLUMN TWO IS NOT THE OWNER, THE PARTY COLUMN TWO IS NOT THE OWNER, THE O	MILT.	1-0	20	1 1	1 4		
201	111	and and record in the second state of the second		1 4	-		1		
100		AND ADDRESS OF MARIA SECURIOR S.		17.97					
	***	Sea Street							

el tie	And the second	met reposit at the recommence :	THE REAL PROPERTY.	er Horizon Sur		
im App			THU VO	-		
14 App	SECRETA MA	itter		H RASHM	MINASH	VIII- 1
or Crim	THAT I SHAPE		SPEAN			
				MY GARLE	loor Mhan	et Done
		ohektroomminklägigmele	Cornes	Rentour		100m
		Fernale	Category			100
Lineste	soowiii.gr	ties-		d Street at Street		OPE
		653334300044	-			Dept
1000	Geste Infur	A CONTRACTOR OF THE PARTY OF TH				
Sen.	Bullyard N		Terminal I			
Cinta				Drienasi Theory	Diade'	Prest
201	##1-381 C	DIT PROFORMS		th.	11.	The same
3044	PAPER 1	CONT A LANGUAGE TYRITRY	100		-	- 51
881.	887-0010	AN ATHMA RECRESSORORY		N	- 10	- 0
766	9.8CT-0003 PE	GNA TECHNOLOGY			**	- 19
845	287-999.0	CAN'T TENNE DUCTURE	100		40	- 65
504	BRTISHA	HAMAL TIEBLE CULTURE	13.9	(A)	4	Al-
BOW	981-505 A	PYCED BIOTEDHIOLION A	- 8	*	10	
904	RETAINER	CONTRACTO & SYSTEMATICS	10.7	20	.00	- 19
867	(8411-057 A	CHARLE OF THE SOURCE STATE	10.5		11	1.75
200	1207-505 F	WOUNCE FORMS WITHIN A	+	H .	- 11	14
800	PRESENT HET-000 7	BACTICAL IN BUDGETRIAL		-	-01	7
440	MICHORY MICHORY	CONTRACTOR OF THE WAR PARTY AND ADDRESS.	179	19	44	-
44	1000 F-003 F-0	A ANDRON, THERE CAN THEN AND A ANDRONE, THE PERSON NAMED IN CO.	10.5		+	
-	A BERUTY	Chronia				

## Grievance Redressal System

 Students Grievance Redressal related to Hall ticket correction

# FUTURE PLANS

### M.Sc Biotechnology

To organize Hands on training workshops

To organize International / National level Conference

To implement NEP 2020



# INDUSTRIAL VISIT



